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11 July 1969

Dear Ray:

In accordance with the provisions of Part 3, "Reports" of Exhibit "A" to Contract [] we are enclosing herewith five (5) copies (classified SECRET) of the FY-69 Quarterly Report No. 4.

RRW.

R. R. W.

RRW:sjm
Encs.

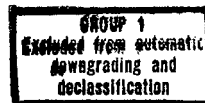
Copy to: RS w/encs. (AL-700515-69-001 thru 005)
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Declass Review by NGA.

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This document contains
10 pages.

AL-700515-69- 001
Copy 1 of 21 copies

FY-69

QUARTERLY REPORT

No. 4

31 May 1969

(1 March 1969 - 31 May 1969)

Prepared by:

[Redacted Signature Box]

25X

5X1 Approved by:

[Redacted Signature Box]

Date: 1 July 1969

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SECTION I

INTRODUCTION

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31 May 69

PROGRAM OBJECTIVE

To investigate through studies, tests, and the fabrication and use of engineering breadboard equipment, new methods or devices which will further the state of the art in photographic techniques and practices as it pertains to improved extraction of collected intelligence information from photographic materials.

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31 May 69

SUMMARY

5X1 1. This Contract FY-69 Quarterly Report No. 4 is submitted in lieu of the May 1969 Monthly Report, and covers progress for the months of March, April and May 1969.

2. Detailed reports on approved, active PARs are found in Section II of this report.

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31 May 69

DISCUSSION

3. PAR Status. The table below lists all PARs in numerical order for ready reference, and the title (condensed in some cases) and status of each.

PAR	Title	Status
201	Travel and Liaison	Active
202/224	 Precision Enlarger/* 3X - 15X Enlarger	Completed/TWX 6351 dtd 21 Jan 66
203	Rapid Access Printer	Completed 4 Aug 65
204	Contact Chip Printer	Termination Rpt completed 27 Jan 65
205	Precision 4X Enlarger	Termination Rpt completed 27 Jan 65
206	Reversal Processing Study	Completed 21 May 65
207	Contact Printer Study	Completed 6 Apr 66
208	Non-Elec. Image Enhancement	Cancelled
209	Phosphor Viewer	Cancelled
210	Laminated Slides	Completed 4 Sep 64
211	Processing Effects Study	Completed 28 Oct 65
212	Color Acq. System Review	Completed 28 Oct 65
213	Color Reprod. Review	Completed 13 Aug 65
214	Roller Transport Processor (12-Inch)	Closed/TWX 7284 dtd 23 May 66
215	Roller Transport Processor (24-Inch)	Closed/TWX 7284 dtd 23 May 66
216	Laser Photographic Exposure	Completed 12 Feb 65
217	Optimization of Lasers	Completed 9 Nov 65
218	Autofocus Systems	Not to be submitted
219	Opt. vs Contact Pg. 1:1	Not to be submitted
220	Static Elec. Hold-Down	Disapproved

* Formerly called the Briefing Print Enlarger.

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PAR	Title	Status
221	Lens Bench Manual	Not to be submitted
222	Auto Stereo Regstrn System	Completed 3 Mar 65
223	Monochr. Lens System	Disapproved
225	Micro-D Training Program	Terminated
226	Edge Trace Meas., Micro-D	Completed
227	Color Viewer	Disapproved
228	Vectograph Study	Not to be submitted
229	Optical Design Film Viewer	Not to be submitted
230	10X Color Lens	Disapproved
231	10-20-40X Color Lamphouse	Disapproved
232	Automated Edge Trace Device	Disapproved
233	Zoom (6X to 60X) Projection Lens	Terminated/TWX 7878 dtd 26 Jul 66
234	MTF Exposure Device	Disapproved
235	Automation Program Study	Disapproved
236	Film Disposal Rewind Unit	Disapproved
237	Briefing Aids	Completed 25 Jul 65
238	Equipment Installation	Closed/TWX 7284 dtd 23 May 66
239	Administration	Closed
240	Not Assigned	-
241	Not Assigned	-
242A	Color Demonstration Material	Completed 29 Mar 66
243A	 Precision Enlarger*	Completed 22 Sep 67
244	Spare Parts for RT Processors	Completed 21 Nov 67
245	BPE High Magnification Lens Sets	Completed 26 Mar 68
246	RT-12 and RT-24 Operational Improvements	Completed 25 Feb 68

* Formerly called the Briefing Print Enlarger.

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31 May 69

<u>PAR</u>	<u>Title</u>	<u>Status</u>
247	Base Spare Parts Kit	Completed 25 Nov 68
248	BPE High-Magnification Lens Set	Completed 15 Nov 68
5X1 249	<input type="checkbox"/> Precision Enlarger Prototype (BPE) Operational Improvements and Maintenance	Active
5X1 250	<input type="checkbox"/> Precision Enlarger Mod II (Prototype)	Disapproved
251	Image Enhancement Studies Using Ring Smear Techniques	Approved by Message 3981, 9 Jun 69*
252	Improvement of Precision Enlarger Fluid Injection System	Approved by Message 3981, 9 Jun 69*

* Although received after the report period cutoff date (31 May 69), approval information is included to reflect current status.

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SECTION II

PAR PROGRESS

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FY-69 Quarterly Report No. 4

PAR 249

31 May 69

SUBJECT: [] Precision Enlarger (BPE) Prototype Operational
Improvements and Maintenance

TASK/PROBLEM

1. Provide photographic enlarger maintenance at the customer's facility for one [] Precision Enlarger (BPE) and three* 10-20-40X Enlargers.

DISCUSSION

2. Contractor personnel visited the customer's facility on three occasions during the quarter and performed maintenance described below.

a. In the week beginning 10 March 1969 (as reported in the March 1969 Monthly Report):

(1) Monthly preventive maintenance (PM) was performed on the BPE in accordance with the prescribed check list.

(2) A "D" lens that had been repaired by the contractor was delivered to the customer's facility, installed, and checked out to the customer's satisfaction.

(3) A 0.5-amp fuse was replaced in the BPE Decitrak unit, and two burned-out Decitrak lamps were also replaced on the BPE readout display.

(4) Although not included in the March 69 report, the following effort was also undertaken:

(a) A malfunctioning pressure roller on Niagara Printer S/N 201 was repaired.

* Although the Task/Problem specifies preventive maintenance on three 10-20-40X Enlargers, the contractor regularly services four enlargers on the basis of verbal request. The customer has stated that he does not consider it necessary to revise the wording of PAR 249 at this time.

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PAR 249

31 May 69

(b) The film plane glass on the 10X objective lens on 10-20-40X Enlarger S/N 101 was replaced; in addition, a malfunctioning "X" counter was examined on this enlarger. The customer has ordered a new counter for installation in the future.

b. In the week beginning 14 April 1969 (as reported in the April 1969 Monthly Report):

(1) The four 10-20-40X Enlargers received regular two-month PM in accordance with the prescribed check list. In addition, the "Y" counter on S/N 119 was adjusted for proper operation, and the film plane glass on a S/N 113 condenser lens was replaced. The "X" counter on S/N 101 is still malfunctioning as reported previously. An order was placed for a new counter and the customer is awaiting delivery from the vendor.

(2) Six-month PM was performed on the BPE (Prototype) S/N 001 and it included photographic checkout of all lens assemblies. The "H" lens showed a possible focus shift with a discrepancy of 5 digits from focus. Six readout display lamps were replaced in the Decitrak unit on this enlarger. Although not included in the report for April, two broken ground wires in the Decitrak readout display were also repaired.

c. In the week beginning 5 May 1969, the following action was taken:

(1) Monthly PM was performed on BPE (Prototype) S/N 001 in accordance with the prescribed check list; it was completed without incident.

(2) A spare "H" lens on the BPE was calibrated for interim use while the contractor makes a factory analysis of a previously reported erratic focus shift in the "H" lens normally used on this enlarger. The customer agreed that the contractor should analyze and evaluate the reason for the focus shift.

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PAR 249

31 May 69

PLANNED ACTIVITY

3. Perform monthly preventive maintenance (PM) on the BPE and two-month PM on four 10-20-40X Enlargers during the week beginning 9 June 69.
4. Continue testing and analysis of the "H" lens focus problem.

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SECTION III

FISCAL SUMMARY

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